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CLAIMS

- 1. A method for conveying information over a wireless interface in the form of a digitally encoded message, comprising the steps of:
- providing a set of bits as a first piece of information to be transmitted,
- 5 applying a certain baseband signal processing method to process the bits to be transmitted,
 - providing a second piece of information to be transmitted and
 - selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information.
 - 2. A transmitting device for transmitting information over a wireless interface in the form of a digitally encoded message, comprising:
 - means for providing a set of bits as a first piece of information to be transmitted
- means for applying a certain baseband signal processing method to process the bits to be transmitted,
 - means for providing a second piece of information to be transmitted and
 - means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information.
 - 3. A receiving device for receiving information over a wireless interface in the form of a digitally encoded message, comprising:
 - means for receiving a set of bits as the representative of a first piece of received information
 - means for applying a certain baseband signal processing method to process the set of bits,
 - means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods so that applying it produces a first piece of received information which satisfies a certain criterion of acceptance and
 - means for providing a second piece of received information in the form of the identified baseband signal processing method.
 - 4. A transmission system comprising:
- 35 a transmitting device and a receiving device,
 - in the transmitting device means for providing a set of bits as a first piece of information to be transmitted and means for applying a certain baseband signal processing method to process the bits to be transmitted,

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- further in the transmitting device means for providing a second piece of information to be transmitted and means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information,
- in the receiving device means for receiving a set of bits as the representative of a first piece of received information and means for applying a certain baseband signal processing method to process the set of bits, and
 - further in the receiving device means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods so that applying it produces a first piece of received information which satisfies a certain criterion of acceptance and means for providing a second piece of received information in the form of the identified baseband signal processing method.